



ARSET

Applied Remote Sensing Training

http://arset.gsfc.nasa.gov
@NASAARSET

Satellite Based PM_{2.5} Data Sets and Access

Pawan Gupta

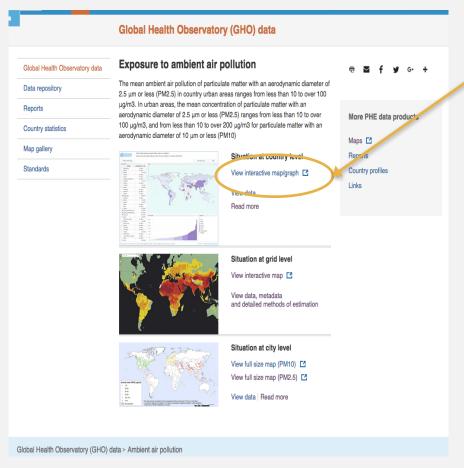
Satellite Remote Sensing of Air Quality: Data, Tools, and Applications

Tuesday, May 23, 2017 – Friday, May 26, 2017 Indian Institute of Tropical Meteorology, Pune, India



Where to Find and View the Data

WHO Website: Country Level



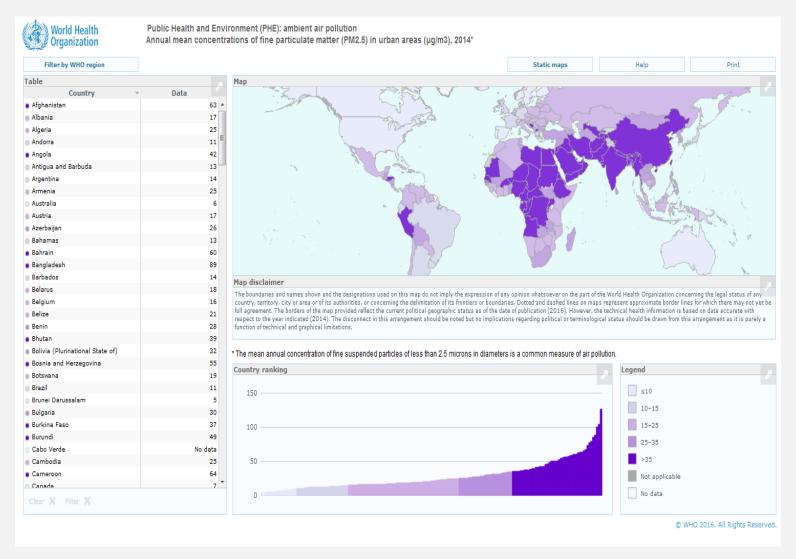
Follow this link to download 2014 country level data:

- Formats: csv, Excel, html,
 XML, etc.
- Can also filter by country and download

http://www.who.int/gho/phe/outdoor_air_pollution/exposure/en/

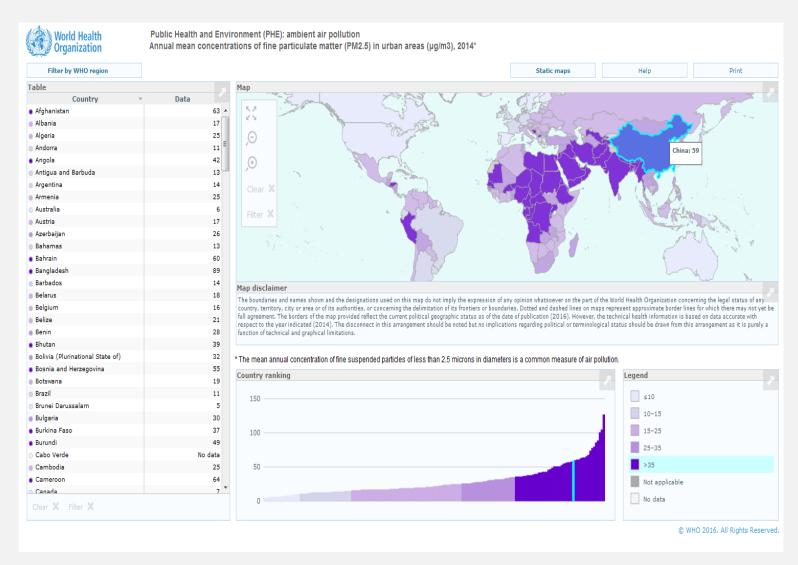
PM_{2.5} at Country Level

http://gamapserver.who.int/gho/interactive_charts/phe/oap_exposure/atlas.html



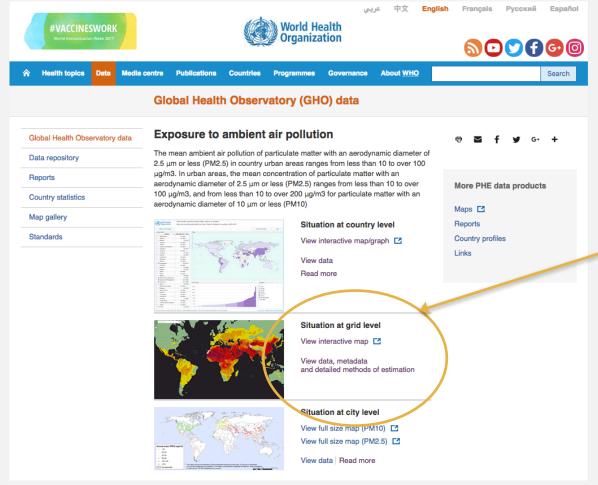
PM_{2.5} at Country Level

http://gamapserver.who.int/gho/interactive_charts/phe/oap_exposure/atlas.html



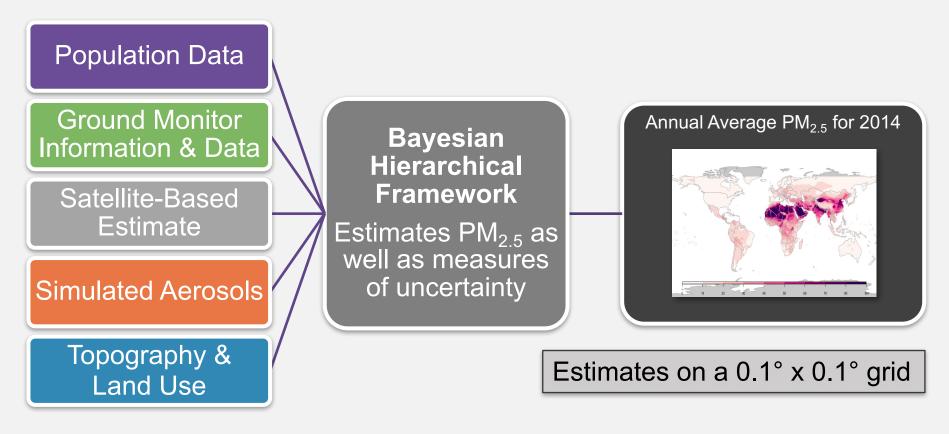
Where to Find and View the Data

WHO Website: Country Level



http://www.who.int/gho/phe/outdoor air pollution/exposure/en/

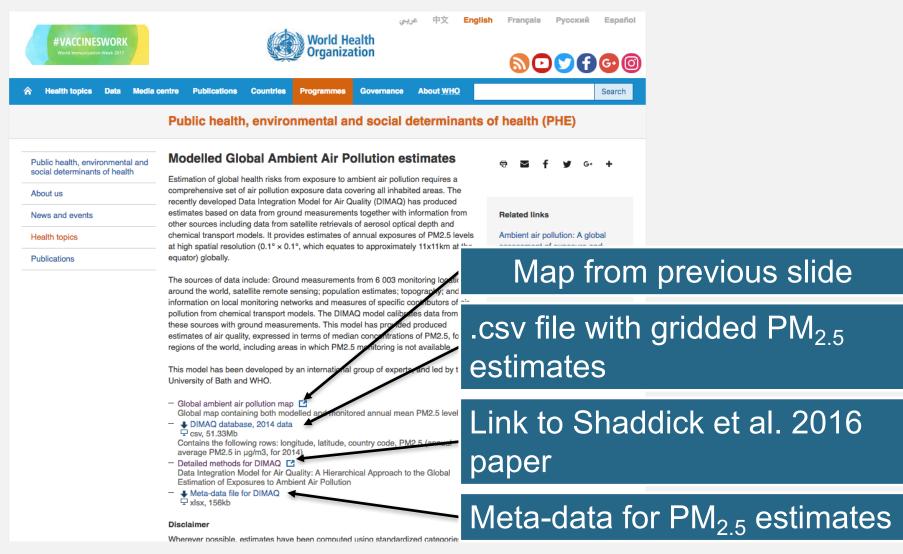
Data Integration Model for Air Quality (DIMAQ)



Shaddick et al. 2016, submitted, Figure 7 (top)

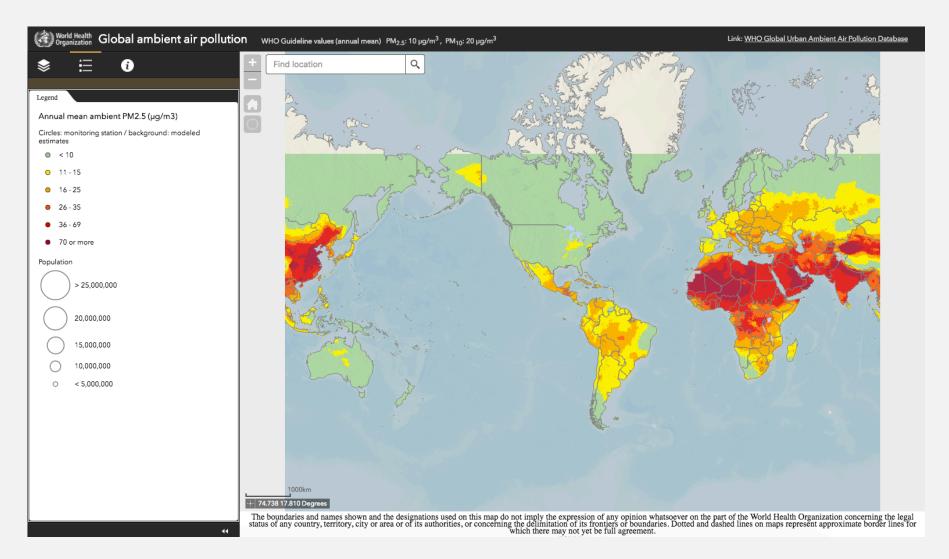
PM_{2.5} at Grid Level

http://www.who.int/phe/health_topics/outdoorair/databases/modelled-estimates/en/



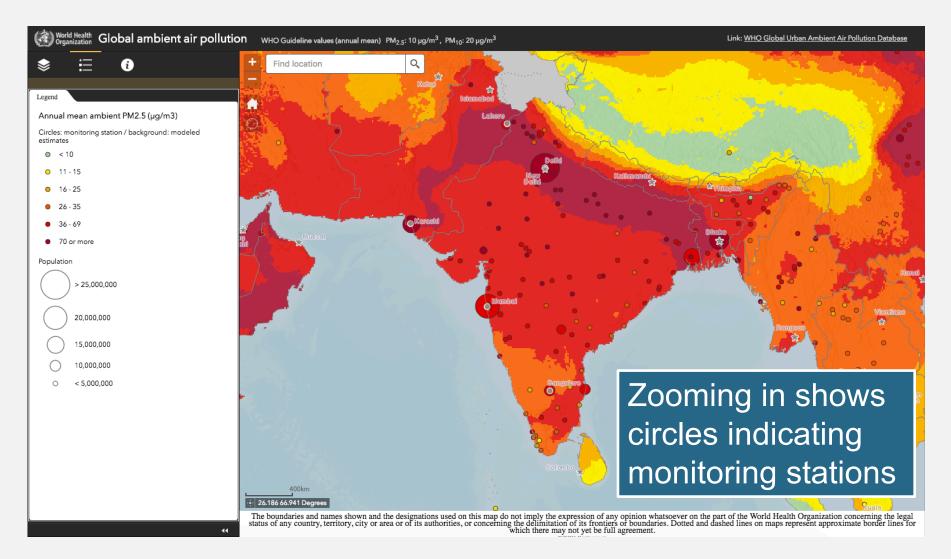
PM_{2.5} at Grid Level

http://maps.who.int/airpollution/



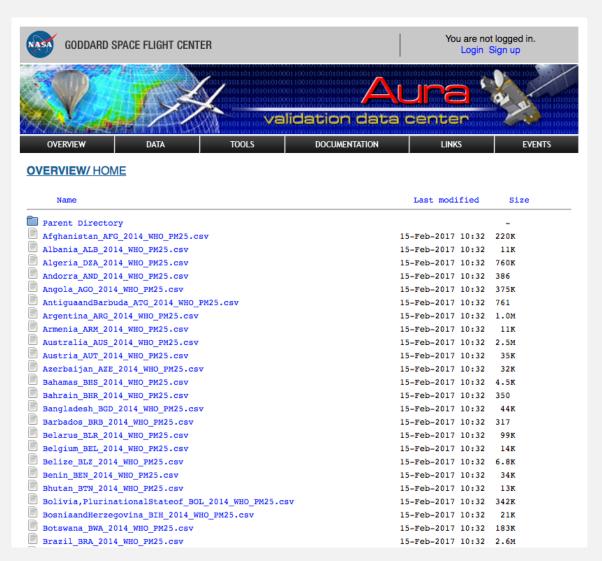
PM_{2.5} at Grid Level

http://maps.who.int/airpollution/



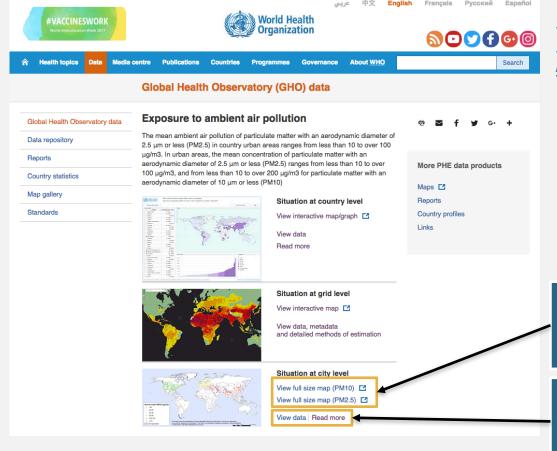
WHO PM_{2.5} Gridded Data: By Country

http://avdc.gsfc.nasa.gov/pub/tmp/WHO PM25 2014 COUNTRY DATA/



Where to Find and View the Data

WHO Website: City Level



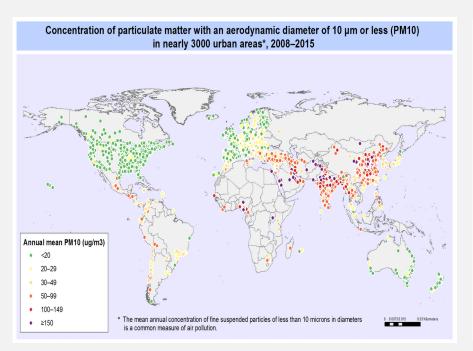
http://www.who.int/gho/phe/outdoor_air_pollution/exposure/en/

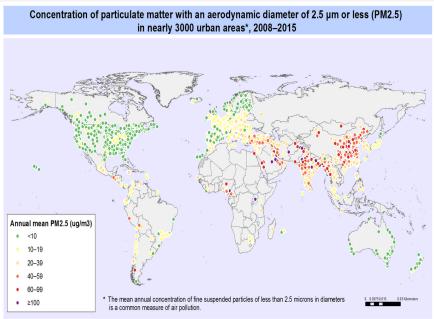
Maps of city level PM₁₀ and PM_{2.5}

.csv file with city level annual means

PM_{2.5} at City Level

http://www.who.int/gho/phe/outdoor_air_pollution/exposure/en/

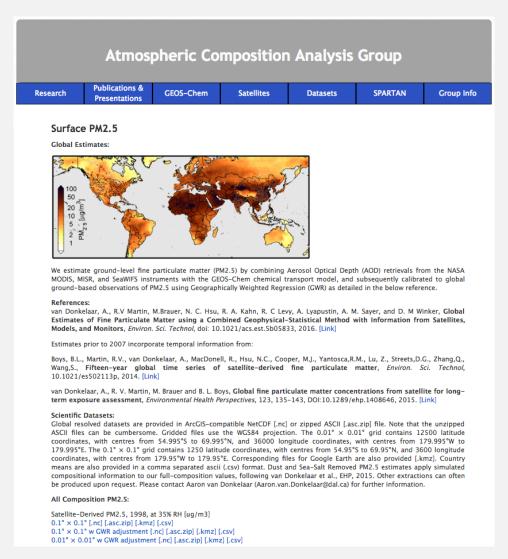






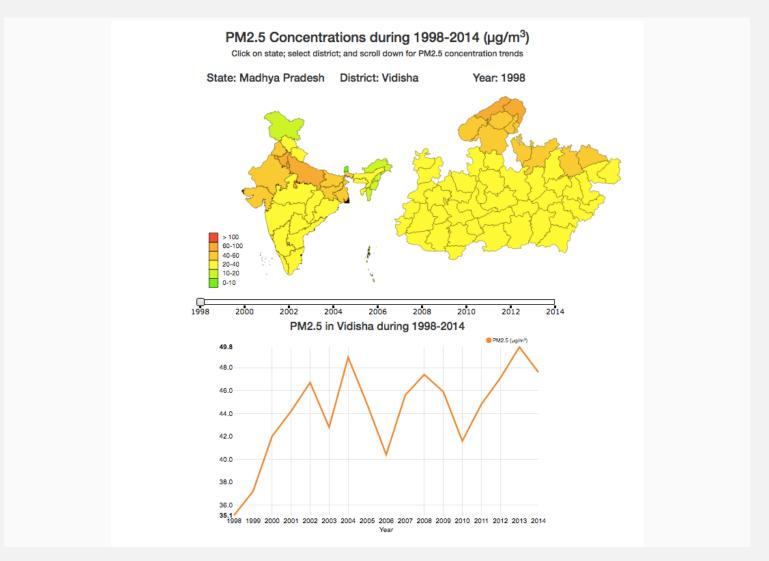
Satellite Derived Surface PM_{2.5} Datasets

http://fizz.phys.dal.ca/~atmos/martin/?page id=140



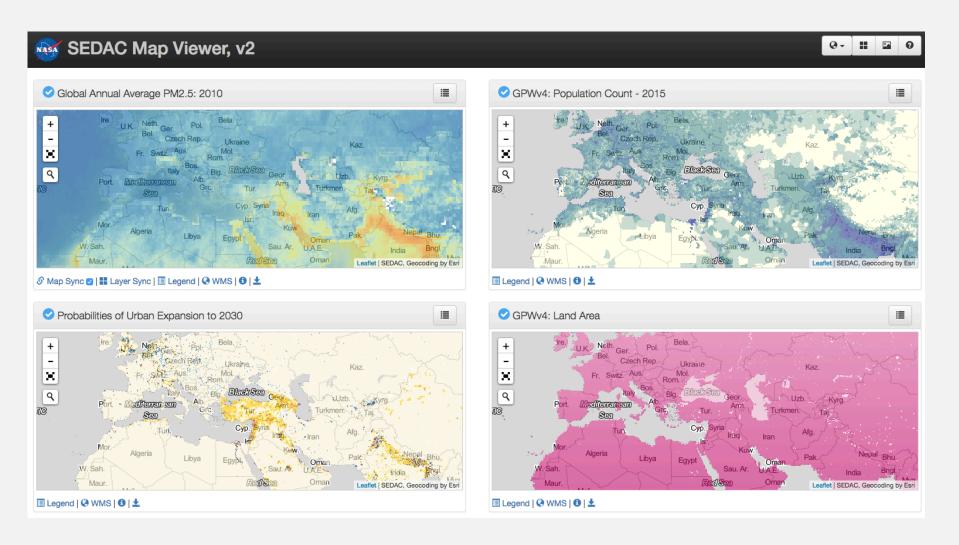
India: Model and Satellite-Derived PM_{2.5}

http://www.urbanemissions.info/india-satpm25/



Socioeconomic Data & Applications Center (SEDAC)

http://sedac.ciesin.columbia.edu/mapping/viewer/#



State of Global Air

http://www.stateofglobalair.org/

